LISTING AND AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1–14. (Cancelled)

15. (Currently amended) Apparatus for correcting color video signals, comprising:

a matrix, through which the color video signals pass to control the proportions of three primary ~~color~~ colors in matrixed color value signals,

means for controlling the matrix as a function of hue of the color video signals respectively, and

means for controlling the matrix as a function of color saturation;

wherein the matrix comprises nine multipliers and three adders,

wherein three of the nine multipliers are connected to one adder, respectively.

16. (Previously presented) Apparatus according to Claim 15, further comprising memories for storing coefficients of the matrix that are set as a function of hue of the color video signals.

17. (Previously presented) Apparatus according to Claim 16, further comprising memories for storing correction values for the coefficients of the matrix, wherein the correction values are set as a function of hue of the color video signals.

18. (Previously presented) Apparatus according to Claim 16, further comprising a converter for generating a hue signal from the color video signals, the hue signal connected to inputs of the memories.

19. (Previously presented) Apparatus according to Claim 17, further comprising a converter for generating a hue signal from the color video signals, the hue signal is connected to inputs of the memories.

20. (Previously presented) Apparatus according to Claim 18, wherein the converter generates a color saturation signal supplied to multipliers located in the supply lines of the correction values to the matrix.

21. (Previously presented) Apparatus according to Claim 19, wherein the converter generates a color saturation signal supplied to multipliers located in the supply lines of the correction values to the matrix.

22. (Previously presented) Apparatus according to Claim 18, wherein the color video signals are provided as color value signals, wherein the converter comprises a converter matrix for generating color difference signals and a coordinate converter.

23. (Previously presented) Apparatus according to Claim 19, the color video signals are provided as color value signals, wherein the converter comprises a converter matrix for generating color difference signals and a coordinate converter.

24. (Previously presented) Apparatus according to Claim 20, the color video signals are provided as color value signals, wherein the converter comprises a converter matrix for generating color difference signals and a coordinate converter.

25. (Previously presented) Apparatus according to Claim 21, wherein the color video signals are provided as color value signals, wherein the converter comprises a converter matrix for generating color difference signals and a coordinate converter.

26. (Previously presented) Apparatus according to Claim 20, wherein one of the memories supplies a correction coefficient to a respective one of the further multipliers.

27. (Previously presented) Apparatus according to Claim 21, wherein a correction coefficient to a respective one of the further multipliers.

28. (Previously presented) Apparatus according to Claim 16, further comprising a computer for loading the correction values into the memories, and the means for controlling the matrix having a program on a computer readable medium for setting the correction values.

29. (Previously presented) Apparatus according to Claim 28, comprising a device for the manual setting of the correction values.

30. (Cancelled).

31. (Cancelled).

32. (Previously presented) Apparatus according to Claim 15, further comprising logarithmizers connected upstream of the matrix and delogarithmizers connected downstream of the matrix.

33. (Previously presented) Apparatus according to Claim 20, wherein one of the memories supplies a correction value to respective one of the multipliers.

34. (Previously presented) Apparatus according to Claim 21, wherein one of the memories supplies a correction value to respective one of the multipliers.

35. (New) Apparatus according to Claim 15, further comprising three limiters configured to limit each color signal to a maximum value governed by a quantization.